

Work Order ID 130487

Friday, March 13, 2015 11:46:32 AM

130487

Page 1

Item ID: D3296-3 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Door Panel
Start Date: 3/13/2015 Start Qty: 8.00 ***8*** Cust Item ID:
Required Date: 3/13/2015 Req'd Qty: 8.00 ***8*** Customer:
Reference:

Approvals: Process Plan: MCS Date: 15-03-13 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3296	B								

100 FLOW WATER JET 0.00
100 Waterjet 8 ~~0~~ Jm15-3-19
FLOW CNC Waterjet Memo 0.00
2024.063 1-Cut as per Dwg D3296
Dwg Rev: B
Prog Rev: B
2-Deburr if necessary

110 QC2- Inspect parts off machine FAI/FAIB 0.00
110 QC 8 ~~0~~ Jm15-3-19
Quality Control Memo 0.00

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.00				<u>8</u>			JAS 38 9-89 MAR 20 2015
130 *130* Small Fab Small Fab	Small Fab Memo Debur	0.00 0.00							W/A 38 9-89
140 *140* HandFinish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00				<u>8</u>		<u>15-3-2306</u>	

DQA: _____ Date: _____



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Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Handling/Pre									
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Operator									
Offset/Setup									
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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC7-Inspect Chemical Conversion Coat	0.00							DAS 38 9-89

150

QC

Memo

Quality Control

MAR 23 2015

160	Identify as per dwg & Stock Location	0.00							DAS 27 8-83
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160

Packaging

Memo

Packaging

MAR 23 2015

170	QC21- Final Inspection - Work Order Release	0.00							
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170

QC

Memo

Quality Control

15-03-24

 15-3-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
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Offset/Setup									
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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
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Picklist Print

Friday, March 13, 2015 11:46:37 AM

Page 1

Work Order ID: 130487

130487

Parent Item: D3296-3

D3296-3

Parent Item Name: Door Panel

Start Date: 3/13/2015

Required Date: 3/13/2015

Start Qty: 8.00

Required Qty: 8.00

Comments: IPP C05.10.14Added step 14KJ/EC
IPP Rev:E Now on Waterjet 06-11-02 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M2024T3S.063		Purchased	No			110	sf	255.7669	0.6532				
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6

M2024T3S 063

Jm15-3-19

2024-T3 .063 sheet

Location

Loc Qty

Loc Code

MAT022

255.7669

m127866

16

m130000

0.0989

m130525

239.668

130525

DQA: _____ Date: _____



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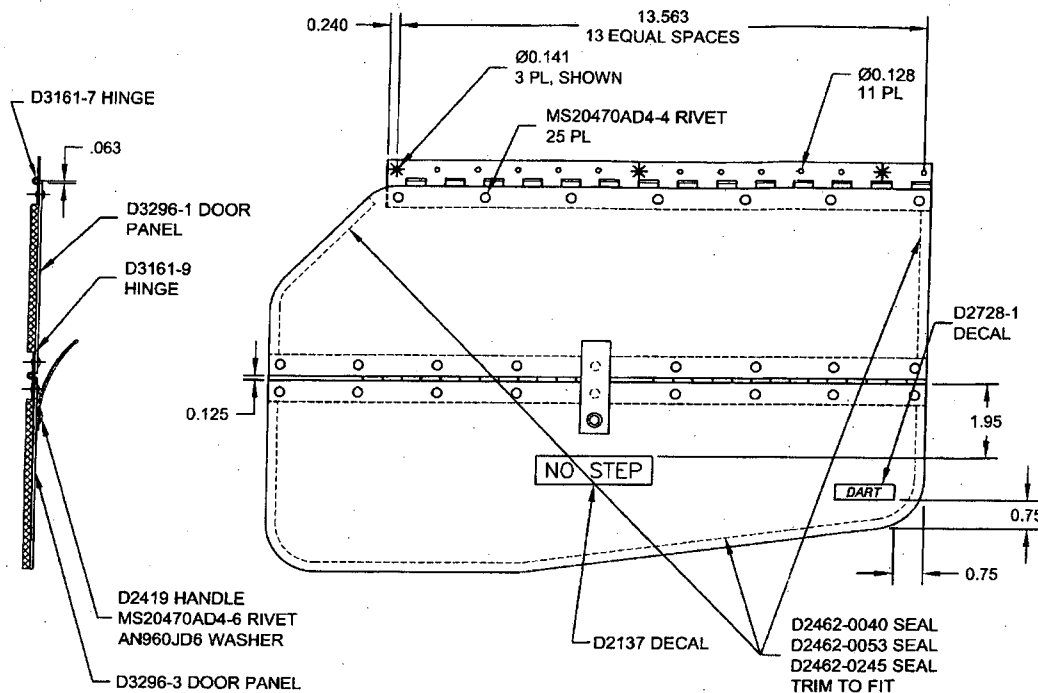
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Doc/Data									
Equip/Tooling									
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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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8 7 6 5 4 3 2 1

QTY	PART NUMBER	DESCRIPTION
X	D3296-041	DOOR ASSEMBLY
1	D2419	HANDLE
2	D2462-0040	SEAL
1	D2462-0053	SEAL
1	D2462-0245	SEAL
1	D2728-1	DECAL
1	D2137	DECAL
1	D3161-7	HINGE
1	D3161-9	HINGE
1	D3296-1	DOOR PANEL
1	D3296-3	DOOR PANEL
1	NAS1149DN632J	WASHER (OR AN960JD6)
25	MS20470AD4-4	RIVET
1	MS20470AD4-6	RIVET



D3296-041 DOOR ASSEMBLY

D3296-041 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.8 lbs
- 8) INSTALL: D2137 AND D2728-1 DECALS, D2419 HANDLE, AND D2462 SEALS AFTER POWDER COATING
- 9) FOLD AND FASTEN D2419 TO FORM 2.5" LONG HANDLE

B	ADD D3296-041B. REF. PAR12-223.	MB	12.11.15
A	NEW ISSUE	CP	04.06.28
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3296	SHEET 1 OF 3
APPROVED		TITLE	SCALE
DE APPR.		DOOR ASSEMBLY	NTS
DATE	12.11.15	COPYRIGHT © 2004 BY DART AEROSPACE LTD	
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130487.MC
15-03-13
RELEASED
2012-11-21

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

QTY	PART NUMBER	DESCRIPTION
X	D3296-041B	DOOR ASSEMBLY
1	D2419	HANDLE
2	D2462-0040	SEAL
1	D2462-0053	SEAL
1	D2462-0245	SEAL
1	D2728-1	DECAL
1	D2137	DECAL
1	D3161-7	HINGE
1	D3161-9	HINGE
1	D3296-1	DOOR PANEL
1	D3296-3	DOOR PANEL
1	NAS1149DN63J	WASHER (OR AN960JD6)
25	MS20470AD4-4	RIVET
1	MS20470AD4-6	RIVET

D

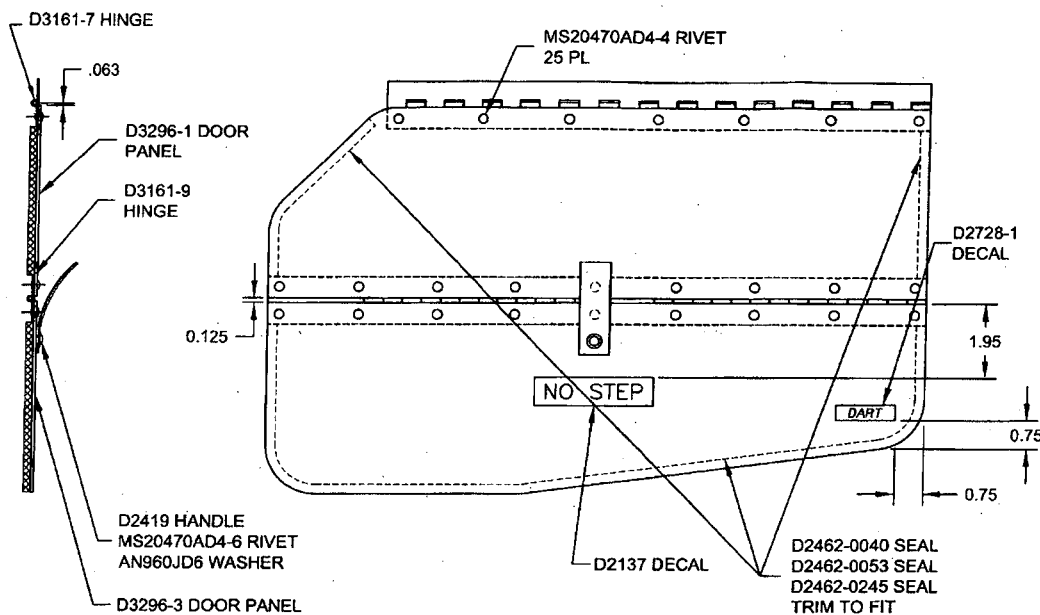
D

C

C

B

B



D3296-041B DOOR ASSEMBLY, BLANK

D3296-041B NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.8 lbs
- 8) INSTALL D2137 AND D2728-1 DECALS, D2419 HANDLE, AND D2462 SEALS AFTER POWDER COATING
- 9) FOLD AND FASTEN D2419 TO FORM 2.5" LONG HANDLE

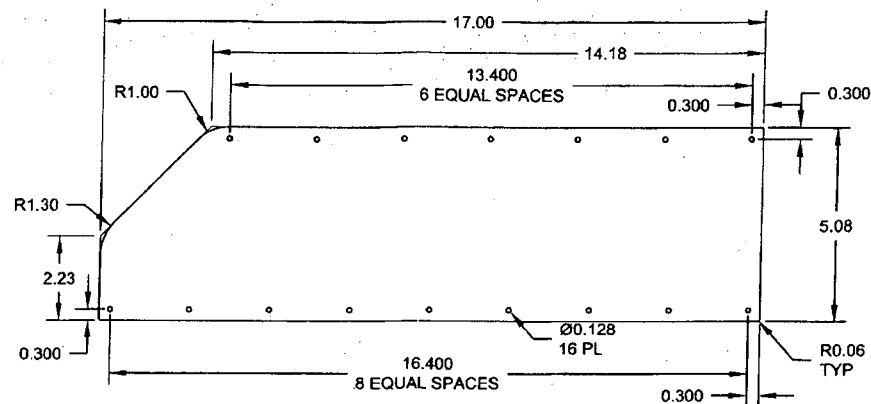
RELEASED
2012-11-21
WFO

DESIGN	99	DART AEROSPACE LTD	
DRAWN	99	HAWKESBURY, ONTARIO, CANADA	
CHECKED	99	DRAWING NO. D3296	REV. B
MFG. APPR.	99	SHEET 2 OF 3	
APPROVED	99	TITLE	SCALE
DE APPR.	99	DOOR ASSEMBLY	NTS
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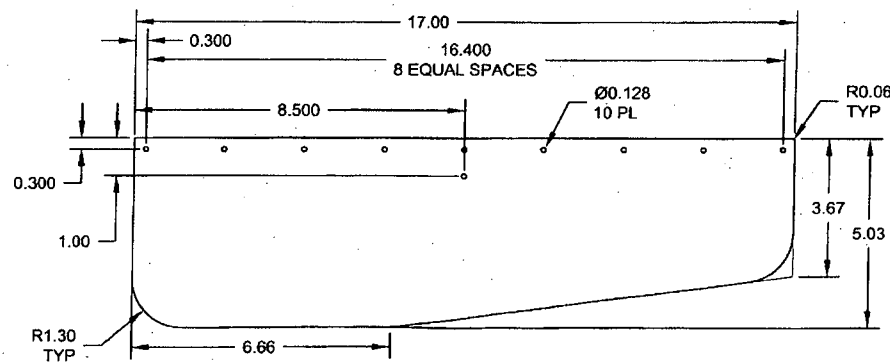
8 7 6 5 4 3 2 1

A

A



D3296-1 DOOR PANEL



D3296-3 DOOR PANEL

RELEASE
2012-11-21
MD

D3296-1/3 NOTES:

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK, PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 REF DART SPEC M2024T3S.063
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: D3296-1 = 0.52 lbs; D3296-3 = 0.50 lbs

DESIGN	97	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3296	SHEET 3 OF 3
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DATE	12.11.15	COPYRIGHT © 2004 BY DART AEROSPACE LTD	
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